Serial No.: 10/656,248

Docket No.: H010011A

## IN THE CLAIMS:

Claims 1-10 (Canceled)

Claim 11. (Currently amended) A method of forming a plurality of metal bumps, comprising:

- (a) providing a chip whose surface comprises a plurality of metal pads;
- (b) forming a photoresist layer on the chip;
- (c) performing an etching process to remove the photoresist layer covering the metal pad so as to form a hole that exposes the metal pad;
  - (d) filling the hole with a metal layer;
  - (e) completely removing the remaining photoresist layer;
  - (f) depositing an insulating layer on the chip to cover the metal layer, and
- (g) performing an anisotropic dry etching process to remove the insulating layer positioned on the top of the metal layer and on the surface of the chip so as to leave the insulating layer positioned on the sidewall of the metal layer.
  - Claim 12. (Original) The method of claim 11, wherein the metal layer is made of Au.
- Claim 13. (Original) The method of claim 11, wherein the insulating layer is made of silicon oxide or silicon nitride.
- Claim 14. (Original) The method of claim 11, wherein the anisotropic dry etching process is a reactive ion etching (RIE) method.
- Claim 15. (Original) The method of claim 11, wherein the metal bump is used for connecting the chip with a nonconducting substrate, and the space between two adjacent metal bumps is filled with an anisotropic conductive film (ACF).

Ming-Yi LAY, et al.

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Claim 16. (Currently amended) A method of forming a plurality of metal bumps, comprising:

- (a) providing a chip whose surface comprises a plurality of metal pads;
- (b) forming a photoresist layer on the chip;
- (c) performing a first etching process to removing the photoresist layer that covers the surface and periphery of the metal pad so as to form a first hole that exposes the metal pad;
  - (d) depositing an insulating layer on the chip to fill the first hole;
- (e) performing a second etching process to remove the insulating layer positioned on the surface of the metal pad and remain the insulating layer positioned on the sidewall of the first hole, and thereby a second hole is formed?
  - (f) filling the second hole with a metal layer; and
  - (g) removing the remaining photoresist layer.
  - Claim 17. (Original) The method of claim 16, wherein the metal layer is made of Au.

Claim 18. (Original) The method of claim 16, wherein the insulating layer is made of silicon oxide or silicon nitride.

Claim 19. (Original) The method of claim 16, wherein the metal bump is used for connecting the chip with a nonconducting substrate and the space between two adjacent metal bumps is filled with an anisotropic conductive film (ACF).